## Claims

- 1 1. A process of dying a seat belt with a dye range,
- 2 the seat belt comprising a woven polyester material
- 3 containing FET-polycaprolactone diblock copolymer
- 4 fiber, the process comprising the steps of:
- 5 introducing the webbing into an oven under tension
- 6 in the range of about 138-167 C (280-330 F).
- 1 2. The process as defined in Claim 1 wherein the
- 2 tension of the webbing within the oven is obtained by a
- 3 step of: controlling the relative speed of one of a
- 4 brake and a haul unit, wherein the haul unit operates
- 5 at about 2-7% faster than the brake unit.
- 1 3. The process as defined in Claim 1 wherein the
- 2 dwell time of any particular length of seat belt in the
- 3 oven is about 3-5 minutes.
- 1 4. The process as defined in Claim 1 wherein after
- 2 the seat belt webbing exits the oven, it is washed and
- 3 then steamed wherein the temperature within a steaming
- f 4 -unit is in the range of about 99-105 C (210-220 F).
- 1 %. The process as defined in Claim 1 wherein the
- 2 webbing is not quenched while it is within or adjacent
- 3 to the oven, which is a thermosol oven.
- 1 6. The process as defined in Claim 1 including the
- 2 step of submersing the webbing within a dye bath
- 3 comprising a 2 solution by volume of blended aromatic
- 4 solvents and monopelate esters carrier.

- 1 7. The process as defined in Claim 6 wherein the step
- 2 of submersing the webbing within a dye bath includes
- 3 immersing the webbing in a solution containing a photo
- 4 stabilizer based on copper complex and a
- 5 chlorobenzotriazene UV absorber.
- 1 8. The process as defined in Claim 6 wherein the step
- 2 of submersing the webbing within a dye bath further
- 3 includes a step of immersing the webbing in a solution
- 4 containing a polyester resin fatty acid derivative
- 5 overcoat in the dye mix.
- 1 9. The process as defined in Claim 1 including the
- 2 step of introducing the webbing to a scour unit having
- 3 a scour mix of at least 2% monopelate ester carrier.
- 1 10. The process as defined in Claim 1 including the
- 2 step of passing the webbing through a terminal dryer
- 3 and subsequent to drying applying an over coating to
- 4 the webbing comprising a perflourcalkylcopolymer
- 5 emulsion finism.
- 1 II. A process of dying a seat belt within a dye range,
- 2 the seat belt comprising a wover material containing a
- 3 blended hybrid fiber of the type known as PET-
- 4 polycaprolactone diblock copolymer fiber, the process
- 5 comprising the steps of: heating the webbing to a
- 6 preferred range while under tension and subsequently
- 7 washing, steaming, finish coating and drying the
- 8 webbing.